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observations and data, supplemented by a presentation of authoritative publications on problems of heredity and plant breeding. It is apparent that America is clearly a leader in experimentation and research connected with maize, grass and fodder plants. Chapter 3 discusses methods and technical expedients; chapter 4 deals with miscellaneous agricultural investigations,—soils, fertilization, machinery, etc.

Because of its wealth of concrete material, its classified bibliographies, and its comprehensive summarizations, the book should prove very helpful and suggestive to both the general student of agriculture and the specialist in plant breeding. Moreover, it exemplifies the advantages which accrue to both science and humanity from the interchange of scientific ideas and the survey of scientific progress and methods in countries not our own.

ALEXANDER E. CANCE.

Massachusetts Agricultural College.

The Sugar Beet and Beet Sugar. By SAMUEL JODIDI. (Chicago: The Beet Sugar Gazette Company. 1911. Pp. 76.)

The little book consists of articles originally published in "The Beet Sugar Gazette." It contains, first, a brief account of the origin and development of the beet sugar industry in Europe and especially in the United States, followed by a more detailed discussion of technical matters pertaining to the agricultural and the manufacturing phases of the industry. The articles were intended to be of practical use to farmers and factory managers, and there is little in the book of direct economic interest. It does, however, offer a convenient brief summary of farm and factory practice. An appendix contains a reprint from the Year Book of the Department of Agriculture for 1908, of an article on the by-products of the beet sugar industry.

E. V. R.

NEW BOOKS

BRIGHTHOUSE, H. *The price of coal.* (London: Gowans & Gray. 1911. 6d.)

CARVER, T. N. *Principles of rural economics.* (Boston: Ginn & Co. 1911. Pp. xx, 386. \$1.30.)

To be reviewed.

- FAY, A. H., editor. *The mineral industry, its statistics, technology and trade during 1910*. Volume XIX, supplementing Volumes I-XVIII. (New York: McGraw-Hill. 1911. Pp. xiv, 904, tables, diagrams. \$10.00.)
- GREGORY, M. H. *Checking the waste; a study in conservation*. (Indianapolis: Bobbs-Merrill Co. 1911. \$1.25.)
- GRUNDBERG, K. *Die Agrarverfassung und das Grundentlastungsproblem in Bosnien und der Herzegowina*. (Leipzig: Duncker & Humblot. 1911. Pp. 120. 3 m.)
- GRUNBERG, M. *Die staatliche Ausnützung der Wasserkräfte in der Schweiz*. (Zurich: E. Speidel. 1911. Pp. 115. 2 m.)
- HALBFASS, W. *Das Wasser im Wirtschaftsleben des Menschen*. Angewandte Geographie, Series IV, No. 3. (Frankfurt: Heinrich Keller. 1911. Pp. viii, 133. 3.50 m.)
- HARTL, C. *Bayern auf dem Weg zum Industriestaat. Eine vergleichende volkswirtschaftliche Studie über die Ausnützung der bayerischen Wasserkräfte, sowie über Staats- und Privatbetrieb in den Industrien der schwarzen und der weissen Kohle*. (Munich: M. Steinebach. 1911. Pp. 117. 2 m.)
- KELLOGG, R. S. *The cost of growing timber*. (Chicago: American Lumberman. 1911. Pp. 18. 25c.)
- KOSKOWSKI, G. *La question agraire au royaume de Pologne*. (Paris: Giard & Brière. 1911. 4.50 fr.)
- KRONACHER, C. *Bilder von einer landwirtschaftlichen Gesellschaftsreise durch England und Schottland*. (Hanover: M. & H. Schaper. 1911. Pp. 164, illus., map. 4 m.)
- LOUTCHISKY, J. *L'état des classes agricoles à la veille de la révolution*. (Paris: H. Champion. 1911. Pp. 108. 2 fr.)
To be reviewed.
- MANN, A. R. *Beginnings in agriculture*. The rural textbook series. (New York: Macmillan. 1911. Pp. xii, 341, illus. 75c.)
- PARENTI, E. *I salari agricole nella provincia di Piacenza; loro variazioni in questo ultimo trentennio*. (Piacenza: V. Porta. 1911. Pp. 22.)
- REDWAY, J. W. *Commercial geography; a book for high schools, commercial courses, and business colleges*. (New York: Scribner's. 1911. Pp. x, 423, map, illus.)
- ROBERTSON-SCOTT, J. W. *The sugar beet; some facts and some illusions*. (London: Cox, The Field Office. 6s.)
- SAGNIER, H. *Le crédit agricole en France, ses origines, son essor, son avenir*. Preface by JULES MELINE. (Paris: Librairie Agricole. 1911. Pp. xv, 160. 3 fr.)
To be reviewed.

SEMPLE, E. C. *Influences of geographic environment*. (New York: Holt & Co. 1911. Pp. xvi, 683.)

To be reviewed.

STEVENS, H. J. *The copper handbook*. Tenth annual edition. (Houghton, Mich.: Horace J. Stevens. 1911.)

Describes 8,130 copper mines in all parts of the world.

SWART, A. G. N. *Rubber companies in the Netherland East Indies*. (Amsterdam: J. H. de Bussy. 1911. Pp. xviii, 307, 3.00 fl.)

TISCHMEYER and H. WERNER. *Landwirtschaftliche Reisebilder aus England und Schottland*. Arbeiten der deutschen Landwirtschaftsgesellschaft, No. 184. (Berlin: Paul Parey. 1911. Pp. vii, 68, illus., tables. 2 m.)

Manufacturing Industries

NEW BOOKS

BROWN, J. H., editor. *Lamb's textile industries of the United States*. (Boston: James H. Lamb Co. 1911. Pp. vi, 460.)

Embraces biographical sketches and a historical résumé of the progress of textile manufacture.

KOSSMANN, W. *Über die wirtschaftliche Entwicklung der Aluminum-industrie*. (Frankfurt: J. Baer & Co. 1911. Pp. 118. 2 m.)

KRANTZ, F. *Die Entwicklung der oberschlesischen Zinkindustrie in technischer, wirtschaftlicher und gesundheitlicher Hinsicht*. (Kattowitz: Gebrüder Böhm. 1911. Pp. iv, 92, illus. 6 m.)

KRAWANY, F. *Internationale Papier-Statistik*. (Berlin: Verlag für Fachliteratur. 1911. Pp. viii, 250. 20 m.)

MILLS, J. C. *Searchlights on some American industries*. (Chicago: McClurg. 1911. Illus. \$1.50.)

OSTERMAYER, A. *Untersuchungen über die Ertragsfähigkeit der mährischen Bauernbetriebe*. (Brünn, Austria: Buch und Betriebsabteilung des Landeskulturrathes. 1911. Pp. 251. 10 m.)

SCHIDROWITZ, P. *Rubber*. (London: Methuen. 1911. Pp. xv, 303.)
First part deals with production and consumption. Favorably reviewed in "Nature," Sept. 14, 1911.

SCHONEMANN, J. *Die deutsche Kaliindustrie und das Kaligesetz. Eine volkswirtschaftliche Studie*. (Hannover: Hahnsche Buchhandlung. 1911. 4.50 m.)

SCHOOLING, J. H. *The British trade book*. (London: Murray. 1911. 10s 6d.)

In this, the fourth issue, the tables are brought up to date, and there is much additional information resulting from new investigations.